

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Original) An endohedral fullerene derivative obtained by chemically modifying an endohedral fullerene doped with an atom whose electronegativity is 3 or higher, by means of a proton dissociable group.

2. (Original) The endohedral fullerene derivative as described in Claim 1 wherein the proton dissociable group is any one selected from the group comprising -OH, -OSO<sub>3</sub>H, -COOH, -SO<sub>3</sub>H, and -OPO(OH)<sub>2</sub>.

3. (Currently amended) A proton conductor comprised of an endohedral fullerene derivative as described in [[Claim 1 or 2]] Claim 1.

4. (Original) A proton conductor comprised of an endohedral fullerene doped with an atom whose electronegativity is equal to or less than 1.

5. (Currently amended) A proton conductor comprised of a polymerized endohedral fullerene derivative obtained by polymerizing an endohedral fullerene derivative as described in Claim 3[[,]] ~~or comprised of a polymerized endohedral fullerene obtained by polymerizing an endohedral fullerene as described in Claim 4.~~

6. (Currently amended) A fuel battery comprising a stack of cells each comprising a fuel electrode, an electrolyte membrane including a proton conductor as described in Claim 3 ~~any one of Claims 3 to 5,~~ and an air electrode.

7. (Currently amended) A gas detector having a gas detection unit comprising a stack of cells each comprising an anode, an electrolyte membrane including a proton conductor as described in Claim 3 ~~any one of Claims 3 to 5~~, and a cathode.

8. (Original) A method for determining the concentration of gas such as hydrogen or hydrocarbon gas using a gas detector as described in Claim 7.

9. (Currently amended) A leak detector having a gas detection unit comprising a stack of cells each comprising an anode, an electrolyte membrane including a proton conductor as described in Claim 3 ~~any one of Claims 3 to 5~~, and a cathode.

10. (Original) Leak detection method for checking whether any leak occurs in a device to be tested and for identifying the site of leak if any leak is detected, the method comprising employing hydrogen as a probe gas, and using a leak detector as described in Claim 9.

11. (New) A proton conductor comprised of an endohedral fullerene derivative as described in Claim 2.

12. (New) A proton conductor comprised of a polymerized endohedral fullerene derivative obtained by polymerizing an endohedral fullerene derivative as described in Claim 4.

13. (New) A fuel battery comprising a stack of cells each comprising a fuel electrode, an electrolyte membrane including a proton conductor as described in Claim 4, and an air electrode.

14. (New) A fuel battery comprising a stack of cells each comprising a fuel electrode, an electrolyte membrane including a proton conductor as described in Claim 5, and an air electrode.

15. (New) A gas detector having a gas detection unit comprising a stack of cells each comprising an anode, an electrolyte membrane including a proton conductor as described in Claim 4, and a cathode.

16. (New) A gas detector having a gas detection unit comprising a stack of cells each comprising an anode, an electrolyte membrane including a proton conductor as described in Claim 5, and a cathode.

17. (New) A leak detector having a gas detection unit comprising a stack of cells each comprising an anode, an electrolyte membrane including a proton conductor as described in Claim 4, and a cathode.

18. (New) A leak detector having a gas detection unit comprising a stack of cells each comprising an anode, an electrolyte membrane including a proton conductor as described in Claim 5, and a cathode.